

# Product data sheet

Specifications



## Control relay, TeSys K, 4 NO, It or eq to 690V, 36VAC coil

CA2KN40C7

⚠ Discontinued on: Jul 12, 2021

⚠ Discontinued

### Main

|                                |                    |
|--------------------------------|--------------------|
| Range                          | TeSys              |
| Product Name                   | TeSys CAK          |
| Product Or Component Type      | Control relay      |
| Device Short Name              | CA2K               |
| Contactor Application          | Control circuit    |
| Utilisation Category           | AC-15<br>DC-13     |
| Pole Contact Composition       | 4 NO               |
| [Ue] Rated Operational Voltage | <= 690 V <= 400 Hz |
| Control Circuit Type           | AC 50/60 Hz        |
| [Uc] Control Circuit Voltage   | 36 V AC 50/60 Hz   |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ith] Conventional Free Air Thermal Current | 10 A (at 122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Irms Rated Making Capacity                  | 110 A IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Associated Fuse Rating                      | 10 A gG conforming to IEC 60947<br>10 A gG conforming to VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ui] Rated Insulation Voltage               | 690 V IEC 60947<br>750 V VDE 0110 group C<br>690 V BS 5424<br>600 V CSA C22.2 No 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mounting Support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Connections - Terminals                     | screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible without cable end |
| Tightening Torque                           | 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm<br>11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 0.24 in (6 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Control Circuit Voltage Limits              | Drop-out: 0.2...0.75 Uc (at <122 °F (50 °C))<br>Operational: 0.8...1.15 Uc (at <122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating Time                              | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Mechanical Durability                       | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Maximum Operating Rate                      | 10000 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                 |                           |
|---------------------------------|---------------------------|
| Immunity To Microbreaks         | 2 ms                      |
| Inrush Power In Va              | 30 VA (at 68 °F (20 °C))  |
| Hold-In Power Consumption In Va | 4.5 VA (at 68 °F (20 °C)) |
| Heat Dissipation                | 1.3 W                     |
| Minimum Switching Voltage       | 17 V                      |
| Minimum Switching Current       | 5 mA                      |
| Non Overlap Distance            | 0.02 in (0.5 mm)          |
| Insulation Resistance           | > 10 MOhm                 |
| Height                          | 2.28 in (58 mm)           |
| Width                           | 1.77 in (45 mm)           |
| Depth                           | 2.24 in (57 mm)           |
| Net Weight                      | 0.40 lb(US) (0.18 kg)     |

## Environment

|                                       |                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1                                                                                                                                          |
| Product Certifications                | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                   |
| Ip Degree Of Protection               | IP2X                                                                                                                                                                                                                                 |
| Protective Treatment                  | TC IEC 60068                                                                                                                                                                                                                         |
| Ambient Air Temperature For Operation | -13...122 °F (-25...50 °C)                                                                                                                                                                                                           |
| Ambient Air Temperature For Storage   | -58...176 °F (-50...80 °C)                                                                                                                                                                                                           |
| Operating Altitude                    | 6561.68 ft (2000 m) without derating                                                                                                                                                                                                 |
| Flame Retardance                      | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102                                                                                                                         |
| Mechanical Robustness                 | Vibrations contactor open2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor open10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed15 Gn for 11 ms IEC 60068-2-27 |

## Ordering and shipping details

|                   |                       |
|-------------------|-----------------------|
| Category          | 22371-RELAYS, CONTROL |
| Discount Schedule | I12                   |
| Gtin              | 3389110482942         |
| Returnability     | No                    |
| Country Of Origin | FR                    |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type Of Package 1       | PCE |
| Number Of Units In Package 1 | 1   |

|                  |                  |
|------------------|------------------|
| Package 1 Height | 1.89 in (4.8 cm) |
| Package 1 Width  | 2.44 in (6.2 cm) |
| Package 1 Length | 2.60 in (6.6 cm) |
| Package 1 Weight | 6.35 oz (180 g)  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|